

CHEMICAL WASTE RECYCLING PROGRAM

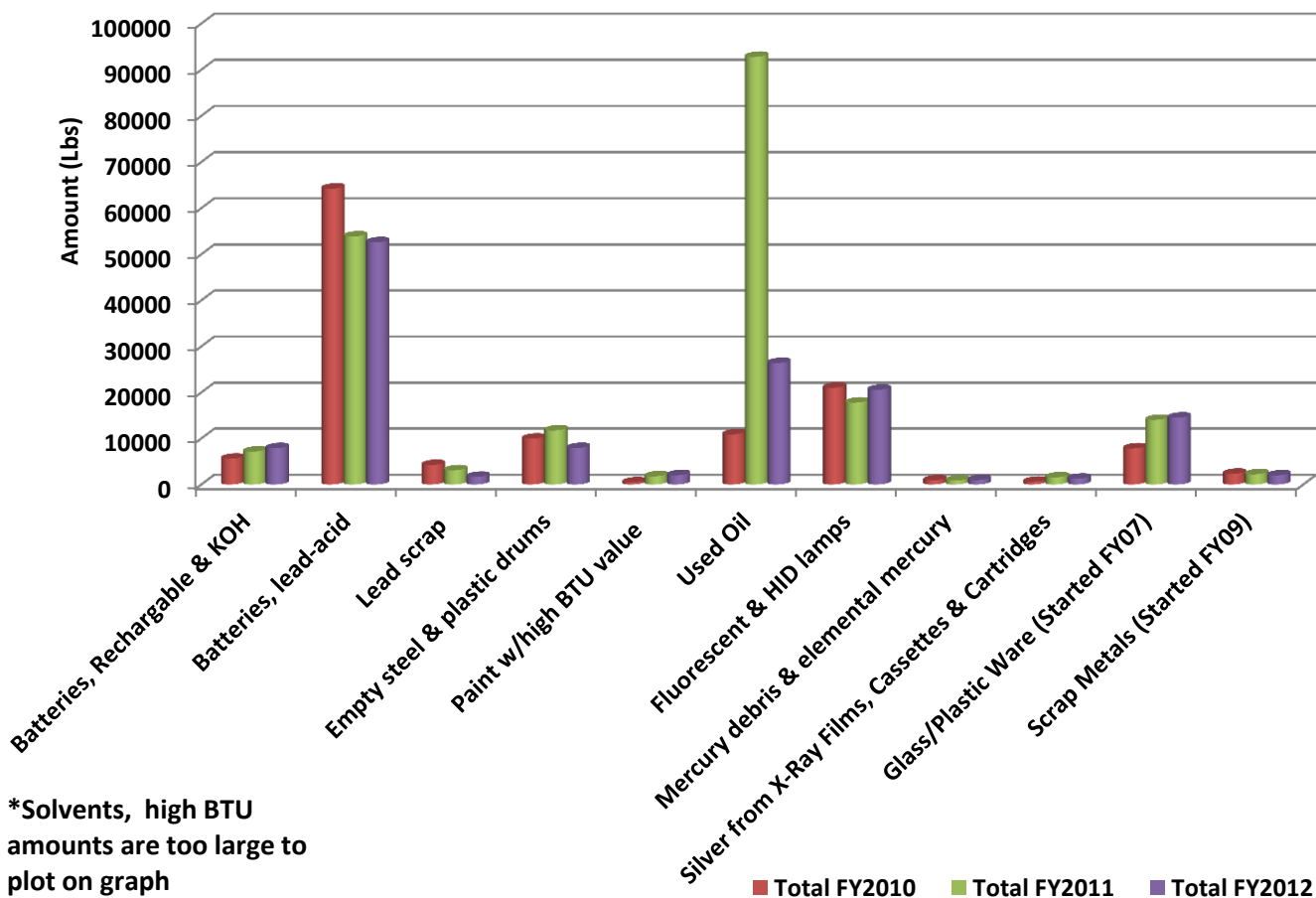
NIH's Chemical Waste Services (CWS) has an effective recycling program in place for most types of waste collected for beneficial reuse. These include:

- [batteries](#)
- [empty chemical bottles](#)
- [solvents with high BTU](#)
- used oil
- lead
- scrap metals
- [fluorescent & HID lamps, mercury \(elemental & debris\)](#)
- empty steel & plastic drums
- [silver from x-ray films, cassettes and recovery units](#)

Through the chemical waste recycling program NIH has been successful in reducing the quantity of chemical waste that would otherwise be disposed in a manner that has a greater environmental impact. Recycled chemical waste is returned to the economic mainstream in the form of raw material for new products. The following table and graph summarizes the quantities of chemical waste that has been recycled.

Chemical Waste Streams Shipped Off-Site for Recycling (Lbs)						
RECYCLING METHOD		Total FY2008	Total FY2009	Total FY2010	Total FY2011	Total FY2012
Batteries, Rechargeable and KOH	Recycle (RBRC)	3,309	2,756	5,618	7,171	7,907
Batteries, lead-acid	Recycle	45,100	41,400	64,246	53,883	52,625
Lead scrap	Recycle	6,028	2,2048	4,248	3,093	1,674
Empty steel and plastic drums	Recycle/Reuse	8,096	4,514	9,970	11,772	7,931
Solvents, high BTU value	Fuels Blending	113,624	110,336	132,858	191,404	199,562
Solvents, high BTU, Hg 0.2-260 ppm	Fuels Blending	466	471	0	0	0
Paint w/high BTU value	Fuel Substitution	1,408	4,201	486	1,804	2,044
Used Oil	Fuels Blending	14,700	16,181	10,909	92,800	26,403
Fluorescent & HID lamps	Mercury recovery	15,479	17,945	21,045	17,795	20,595
Mercury debris and elemental mercury	Retorting and Mercury Recovery	629	682	917	875	1,003
Silver from X-Ray Films, Cassettes and Cartridges	Recovery and reuse	785	1,085	610	1,585	1,275
Glass/Plastic Ware (Started FY07)	Recycle/Reuse	6,321	7,779	7,858	14,052	14,547
Scrap Metals (Started FY09)	Recycle/Reuse	0	7,564	2,343	2,251	2,010
Building Decommissioning waste	Recycle/Reuse	16,739	5,319	1,1473	4,802	2,852
Recyclables from construction projects	Recycle/Reuse	20,055	5,527	0	7,130	0
Total, Recycled		252,758	247,809	272,581	410,417	340,429
Total Disposed and Recycled		584,330	612,694	644,307	745,657	624,464
Percentage Recycled		43.26%	40.45%	42.31%	55.04%	54.52%

Chemical Waste Diverted for Recycling FY10-12



Outreach Information

[NIH Chemical Waste Recycling Program Brochure](#)

[Empty Chemical Bottle Recycling Article](#)

[NIH Chemical Waste Recycling Program Poster](#)